

=====

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Keisha Douglas

Timestamp: [year=2008; month=6; day=20; hr=11; min=14; sec=55; ms=713;]

=====

Application No: 10540612 Version No: 2.0

Input Set:

Output Set:

Started: 2008-05-30 13:46:50.561
Finished: 2008-05-30 13:46:52.292
Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 731 ms
Total Warnings: 23
Total Errors: 0
No. of SeqIDs Defined: 24
Actual SeqID Count: 24

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)
W 213	Artificial or Unknown found in <213> in SEQ ID (21)

Input Set:

Output Set:

Started: 2008-05-30 13:46:50.561
Finished: 2008-05-30 13:46:52.292
Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 731 ms
Total Warnings: 23
Total Errors: 0
No. of SeqIDs Defined: 24
Actual SeqID Count: 24

Error code

Error Description

This error has occurred more than 20 times, will not be displayed

SEQUENCE LISTING

<110> FARNEGARDH, MATHIAS
 BONN, TORNAS
 SUN, SHERRY
 LJUNGGREN, JAN
 AHOLA, HARRI
 CARLQUIST, MATS

<120> PROTEIN CRYSTAL

<130> 041US1

<140> 10540612

<141> 2006-07-24

<150> PCT/IB03/06412

<151> 2003-12-24

<150> GB 0230177.8

<151> 2002-12-24

<160> 24

<170> PatentIn Ver. 3.3

<210> 1

<211> 461

<212> PRT

<213> Homo sapiens

<400> 1

Met Ser Ser Pro Thr Thr Ser Ser Leu Asp Thr Pro Leu Pro Gly Asn
 1 5 10 15

Gly Pro Pro Gln Pro Gly Ala Pro Ser Ser Ser Pro Thr Val Lys Glu
 20 25 30

Glu Gly Pro Glu Pro Trp Pro Gly Gly Pro Asp Pro Asp Val Pro Gly
 35 40 45

Thr Asp Glu Ala Ser Ser Ala Cys Ser Thr Asp Trp Val Ile Pro Asp
 50 55 60

Pro Glu Glu Glu Pro Glu Arg Lys Arg Lys Lys Gly Pro Ala Pro Lys
 65 70 75 80

Met Leu Gly His Glu Leu Cys Arg Val Cys Gly Asp Lys Ala Ser Gly
 85 90 95

Phe His Tyr Asn Val Leu Ser Cys Glu Gly Cys Lys Gly Phe Phe Arg
 100 105 110

Arg Ser Val Val Arg Gly Gly Ala Arg Arg Tyr Ala Cys Arg Gly Gly
 115 120 125

Gly	Thr	Cys	Gln	Met	Asp	Ala	Phe	Met	Arg	Arg	Lys	Cys	Gln	Gln	Cys	130	135	140
Arg	Leu	Arg	Lys	Cys	Lys	Glu	Ala	Gly	Met	Arg	Glu	Gln	Cys	Val	Leu	145	150	155 160
Ser	Glu	Glu	Gln	Ile	Arg	Lys	Lys	Lys	Ile	Arg	Lys	Gln	Gln	Gln	Gln	165	170	175
Glu	Ser	Gln	Ser	Gln	Ser	Gln	Ser	Pro	Val	Gly	Pro	Gln	Gly	Ser	Ser	180	185	190
Ser	Ser	Ala	Ser	Gly	Pro	Gly	Ala	Ser	Pro	Gly	Gly	Ser	Glu	Ala	Gly	195	200	205
Ser	Gln	Gly	Ser	Gly	Glu	Gly	Glu	Gly	Val	Gln	Leu	Thr	Ala	Ala	Gln	210	215	220
Glu	Leu	Met	Ile	Gln	Gln	Leu	Val	Ala	Ala	Gln	Leu	Gln	Cys	Asn	Lys	225	230	235 240
Arg	Ser	Phe	Ser	Asp	Gln	Pro	Lys	Val	Thr	Pro	Trp	Pro	Leu	Gly	Ala	245	250	255
Asp	Pro	Gln	Ser	Arg	Asp	Ala	Arg	Gln	Gln	Arg	Phe	Ala	His	Phe	Thr	260	265	270
Glu	Leu	Ala	Ile	Ile	Ser	Val	Gln	Glu	Ile	Val	Asp	Phe	Ala	Lys	Gln	275	280	285
Val	Pro	Gly	Phe	Leu	Gln	Leu	Gly	Arg	Glu	Asp	Gln	Ile	Ala	Leu	Leu	290	295	300
Lys	Ala	Ser	Thr	Ile	Glu	Ile	Met	Leu	Leu	Glu	Thr	Ala	Arg	Arg	Tyr	305	310	315 320
Asn	His	Glu	Thr	Glu	Cys	Ile	Thr	Phe	Leu	Lys	Asp	Phe	Thr	Tyr	Ser	325	330	335
Lys	Asp	Asp	Phe	His	Arg	Ala	Gly	Leu	Gln	Val	Glu	Phe	Ile	Asn	Pro	340	345	350
Ile	Phe	Glu	Phe	Ser	Arg	Ala	Met	Arg	Arg	Leu	Gly	Leu	Asp	Asp	Ala	355	360	365
Glu	Tyr	Ala	Leu	Leu	Ile	Ala	Ile	Asn	Ile	Phe	Ser	Ala	Asp	Arg	Pro	370	375	380
Asn	Val	Gln	Glu	Pro	Gly	Arg	Val	Glu	Ala	Leu	Gln	Gln	Pro	Tyr	Val	385	390	395 400
Glu	Ala	Leu	Leu	Ser	Tyr	Thr	Arg	Ile	Lys	Arg	Pro	Gln	Asp	Gln	Leu	405	410	415
Arg	Phe	Pro	Arg	Met	Leu	Met	Lys	Leu	Val	Ser	Leu	Arg	Thr	Leu	Ser	420	425	430

Ser Val His Ser Glu Gln Val Phe Ala Leu Arg Leu Gln Asp Lys Lys
435 440 445

Leu Pro Pro Leu Leu Ser Glu Ile Trp Asp Val His Glu
450 455 460

<210> 2

<211> 208

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
construct

<400> 2

Gly Ser His Met Gly Glu Gly Glu Gly Val Gln Leu Thr Ala Ala Gln
1 5 10 15

Glu Leu Met Ile Gln Gln Leu Val Ala Ala Gln Leu Gln Cys Asn Lys
20 25 30

Arg Ser Phe Ser Asp Gln Pro Lys Val Thr Pro Trp Pro Leu Gly Ala
35 40 45

Asp Pro Gln Ser Arg Asp Ala Arg Gln Gln Arg Phe Ala His Phe Thr
50 55 60

Glu Leu Ala Ile Ile Ser Val Gln Glu Ile Val Asp Phe Ala Lys Gln
65 70 75 80

Val Pro Gly Phe Leu Gln Leu Gly Arg Glu Asp Gln Ile Ala Leu Leu
85 90 95

Lys Ala Ser Thr Ile Glu Ile Met Leu Leu Glu Thr Ala Arg Arg Tyr
100 105 110

Asn His Glu Thr Glu Cys Ile Thr Phe Leu Lys Asp Phe Thr Tyr Ser
115 120 125

Lys Asp Asp Phe His Arg Ala Gly Leu Gln Val Glu Phe Ile Asn Pro
130 135 140

Ile Phe Glu Phe Ser Arg Ala Met Arg Arg Leu Gly Leu Asp Asp Ala
145 150 155 160

Glu Tyr Ala Leu Leu Ile Ala Ile Asn Ile Phe Ser Ala Asp Arg Pro
165 170 175

Asn Val Gln Glu Pro Gly Arg Val Glu Ala Leu Gln Gln Pro Tyr Val
180 185 190

Glu Ala Leu Leu Ser Tyr Thr Arg Ile Lys Arg Pro Gln Asp Gln Leu
195 200 205

<210> 3
 <211> 23
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 construct

 <400> 3
 Leu Thr Ala Ala Gln Glu Leu Met Ile Gln Gln Leu Val Ala Ala Gln
 1 5 10 15

 Leu Gln Cys Asn Lys Arg Ser
 20

 <210> 4
 <211> 7
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 construct

 <400> 4
 Pro Lys Val Thr Pro Trp Pro
 1 5

 <210> 5
 <211> 202
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 construct

 <400> 5
 Ala Ala Ala Asp Ala Arg Gln Gln Arg Phe Ala His Phe Thr Glu Leu
 1 5 10 15

 Ala Ile Ile Ser Val Gln Glu Ile Val Asp Phe Ala Lys Gln Val Pro
 20 25 30

 Gly Phe Leu Gln Leu Gly Arg Glu Asp Gln Ile Ala Leu Leu Lys Ala
 35 40 45

 Ser Thr Ile Glu Ile Met Leu Leu Glu Thr Ala Arg Arg Tyr Asn His
 50 55 60

 Glu Thr Glu Cys Ile Thr Phe Leu Lys Asp Phe Thr Tyr Ser Lys Asp
 65 70 75 80

 Asp Phe His Arg Ala Gly Leu Gln Val Glu Phe Ile Asn Pro Ile Phe

85

90

95

Glu Phe Ser Arg Ala Met Arg Arg Leu Gly Leu Asp Asp Ala Glu Tyr
 100 105 110

Ala Leu Leu Ile Ala Ile Asn Ile Phe Ser Ala Asp Arg Pro Asn Val
 115 120 125

Gln Glu Pro Gly Arg Val Glu Ala Leu Gln Gln Pro Tyr Val Glu Ala
 130 135 140

Leu Leu Ser Tyr Thr Arg Ile Lys Arg Pro Gln Asp Gln Leu Arg Phe
 145 150 155 160

Pro Arg Met Leu Met Lys Leu Val Ser Leu Arg Thr Leu Ser Ser Val
 165 170 175

His Ser Glu Gln Val Phe Ala Leu Arg Leu Gln Asp Lys Lys Leu Pro
 180 185 190

Pro Leu Leu Ser Glu Ile Trp Asp Val Ala
 195 200

<210> 6

<211> 241

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 construct

<400> 6

Leu Thr Ala Ala Gln Glu Leu Met Ile Gln Gln Leu Val Ala Ala Gln
 1 5 10 15

Leu Gln Cys Asn Lys Arg Ser Phe Ser Asp Gln Pro Lys Val Thr Pro
 20 25 30

Trp Pro Leu Gly Ala Asp Pro Gln Ser Ala Asp Ala Arg Gln Gln Arg
 35 40 45

Phe Ala His Phe Thr Glu Leu Ala Ile Ile Ser Val Gln Glu Ile Val
 50 55 60

Asp Phe Ala Lys Gln Val Pro Gly Phe Leu Gln Leu Gly Arg Glu Asp
 65 70 75 80

Gln Ile Ala Leu Leu Lys Ala Ser Thr Ile Glu Ile Met Leu Leu Glu
 85 90 95

Thr Ala Arg Arg Tyr Asn His Glu Thr Glu Cys Ile Thr Phe Leu Lys
 100 105 110

Asp Phe Thr Tyr Ser Lys Asp Asp Phe His Arg Ala Gly Leu Gln Val
 115 120 125

Glu Phe Ile Asn Pro Ile Phe Glu Phe Ser Arg Ala Met Arg Arg Leu
130 135 140

Gly Leu Asp Asp Ala Glu Tyr Ala Leu Leu Ile Ala Ile Asn Ile Phe
145 150 155 160

Ser Ala Asp Arg Pro Asn Val Gln Glu Pro Gly Arg Val Glu Ala Leu
165 170 175

Gln Gln Pro Tyr Val Glu Ala Leu Leu Ser Tyr Thr Arg Ile Lys Arg
180 185 190

Pro Gln Asp Gln Leu Arg Phe Pro Arg Met Leu Met Lys Leu Val Ser
195 200 205

Leu Arg Thr Leu Ser Ser Val His Ser Glu Gln Val Phe Ala Leu Arg
210 215 220

Leu Gln Asp Lys Lys Leu Pro Pro Leu Leu Ser Glu Ile Trp Asp Val
225 230 235 240

Ala

<210> 7

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
construct

<400> 7

Leu Thr Ala Ala Gln Glu Leu Met Ile Gln Gln Leu Val Ala Ala Gln
1 5 10 15

Leu Gln Cys Asn Lys Arg Ser Phe Ser Asp Gln Pro Lys Val Thr Pro
20 25 30

Trp

<210> 8

<211> 175

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
construct

<400> 8

Arg Gln Gln Arg Phe Ala His Phe Thr Glu Leu Ala Ile Ile Ser Val

1	5	10	15
Gln Glu Ile Val Asp Phe Ala Lys	Gln Val Pro Gly Phe Leu Gln Leu		
20	25	30	
Gly Arg Glu Asp Gln Ile Ala Leu	Leu Lys Ala Ser Thr Ile Glu Ile		
35	40	45	
Met Leu Leu Glu Thr Ala Arg Arg	Tyr Asn His Glu Thr Glu Cys Ile		
50	55	60	
Thr Phe Leu Lys Asp Phe Thr Tyr	Ser Lys Asp Asp Phe His Arg Ala		
65	70	75	80
Gly Leu Gln Val Glu Phe Ile Asn	Pro Ile Phe Glu Phe Ser Arg Ala		
85	90	95	
Met Arg Arg Leu Gly Leu Asp Asp	Ala Glu Tyr Ala Leu Leu Ile Ala		
100	105	110	
Ile Asn Ile Phe Ser Ala Asp Arg	Pro Asn Val Gln Glu Pro Gly Arg		
115	120	125	
Val Glu Ala Leu Gln Gln Pro Tyr	Val Glu Ala Leu Leu Ser Tyr Thr		
130	135	140	
Arg Ile Lys Arg Pro Gln Asp Gln	Leu Arg Phe Pro Arg Met Leu Met		
145	150	155	160
Lys Leu Val Ser Leu Arg Thr Leu	Ser Ser Val His Ser Glu Gln		
165	170	175	

<210> 9

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
construct

<400> 9

Leu Thr Ala Ala Gln Glu Leu Met	Ile Gln Gln Leu Val Ala Ala Gln
1	5 10 15

Leu Gln Cys Asn Lys Arg Ser Phe	Ser
20	25

<210> 10

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

construct

<400> 10

Lys Val Thr Pro Trp Pro Leu
1 5

<210> 11

<211> 182

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
construct

<400> 11

Ala Arg Gln Gln Arg Phe Ala His Phe Thr Glu Leu Ala Ile Ile Ser
1 5 10 15

Val Gln Glu Ile Val Asp Phe Ala Lys Gln Val Pro Gly Phe Leu Gln
20 25 30

Leu Gly Arg Glu Asp Gln Ile Ala Leu Leu Lys Ala Ser Thr Ile Glu
35 40 45

Ile Met Leu Leu Glu Thr Ala Arg Arg Tyr Asn His Glu Thr Glu Cys
50 55 60

Ile Thr Phe Leu Lys Asp Phe Thr Tyr Ser Lys Asp Asp Phe His Arg
65 70 75 80

Ala Gly Leu Gln Val Glu Phe Ile Asn Pro Ile Phe Glu Phe Ser Arg
85 90 95

Ala Met Arg Arg Leu Gly Leu Asp Asp Ala Glu Tyr Ala Leu Leu Ile
100 105 110

Ala Ile Asn Ile Phe Ser Ala Asp Arg Pro Asn Val Gln Glu Pro Gly
115 120 125

Arg Val Glu Ala Leu Gln Gln Pro Tyr Val Glu Ala Leu Leu Ser Tyr
130 135 140

Thr Arg Ile Lys Arg Pro Gln Asp Gln Leu Arg Phe Pro Arg Met Leu
145 150 155 160

Met Lys Leu Val Ser Leu Arg Thr Leu Ser Ser Val His Ser Glu Gln
165 170 175

Val Phe Ala Leu Arg Leu
180

<210> 12

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
construct

<400> 12

Lys Leu Pro Pro Leu Leu Ser Glu Ile Trp Asp Val Ala
1 5 10

<210> 13

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
construct

<400> 13

Leu Thr Ala Ala Gln Glu Leu Met Ile Gln Gln Leu Val Ala Ala Gln
1 5 10 15

Leu Gln Cys Asn Lys Arg Ser Phe Ser Asp Gln Pro Lys Val Thr Pro
20 25 30

Trp Pro

<210> 14

<211> 198

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
construct

<400> 14

Ala Asp Ala Arg Gln Gln Arg Phe Ala His Phe Thr Glu Leu Ala Ile
1 5 10 15

Ile Ser Val Gln Glu Ile Val Asp Phe Ala Lys Gln Val Pro Gly Phe
20 25 30

Leu Gln Leu Gly Arg Glu Asp Gln Ile Ala Leu Leu Lys Ala Ser Thr
35 40 45

Ile Glu Ile Met Leu Leu Glu Thr Ala Arg Arg Tyr Asn His Glu Thr
50 55 60

Glu Cys Ile Thr Phe Leu Lys Asp Phe Thr Tyr Ser Lys Asp Asp Phe
65 70 75 80

His Arg Ala Gly Leu Gln Val Glu Phe Ile Asn Pro Ile Phe Glu Phe

85

90

95

Ser Arg Ala Met Arg Arg Leu Gly Leu Asp Asp Ala Glu Tyr Ala Leu
100 105 110

Leu Ile Ala Ile Asn Ile Phe Ser Ala Asp Arg Pro Asn Val Gln Glu
115 120 125

Pro Gly Arg Val Glu Ala Leu Gln Gln Pro Tyr Val Glu Ala Leu Leu
130 135 140

Ser Tyr Thr Arg Ile Lys Arg Pro Gln Asp Gln Leu Arg Phe Pro Arg
145 150 155 160

Met Leu Met Lys Leu Val Ser Leu Arg Thr Leu Ser Ser V